

CLAIMS

1. A flexible tubular pipe (10), especially designed for transporting hydrocarbons, produced by independent successive layers consisting, on the one hand, of helical windings (1, 3, 4a, 4b) of various profiled strips and/or tapes and, on the other hand, of at least one sheath (2, 5) made of polymer material, characterized in that at least one winding (11) is produced from polytetrafluoroethylene (PTFE) tapes (12).
2. The pipe as claimed in claim 1, characterized in that the tapes (12) are made of PTFE modified by a perfluorinated comonomer.
3. The pipe as claimed in claim 2, characterized in that the tapes (12) are made of PTFE modified by PPVE (perfluoro(n-propyl vinyl ether)).
4. The pipe as claimed in any one of claims 1 to 3, characterized in that the pipe (10) comprises, from the inside outward: an internal carcass (1) consisting of a winding of a profiled strip in mutually interlocked turns; an internal sealing sheath (2); a set of armor plies (3, 4a, 4b) consisting of helical windings of profiled strips; and a polymeric external protective sheath (5).
5. The pipe as claimed in claim 4, characterized in that the winding (11) produced from polytetrafluoroethylene (PTFE) tapes (12) constitutes an intermediate layer placed between the carcass (1) and the internal sealing sheath (2).
6. The pipe as claimed in either of claims 4 and 5, characterized in that the winding (11) produced

from polytetrafluoroethylene (PTFE) tapes (12) constitutes an intermediate layer placed between two armor plies (4a, 4b).

- 5 7. The pipe as claimed in any one of claims 1 to 6,
characterized in that the PTFE tapes (12) have a
thickness of between 0.5 mm and 5 mm.
- 10 8. The pipe as claimed in any one of claims 1 to 7,
characterized in that the tapes (12) are very long
tapes obtained by welding elements of shorter
length together.